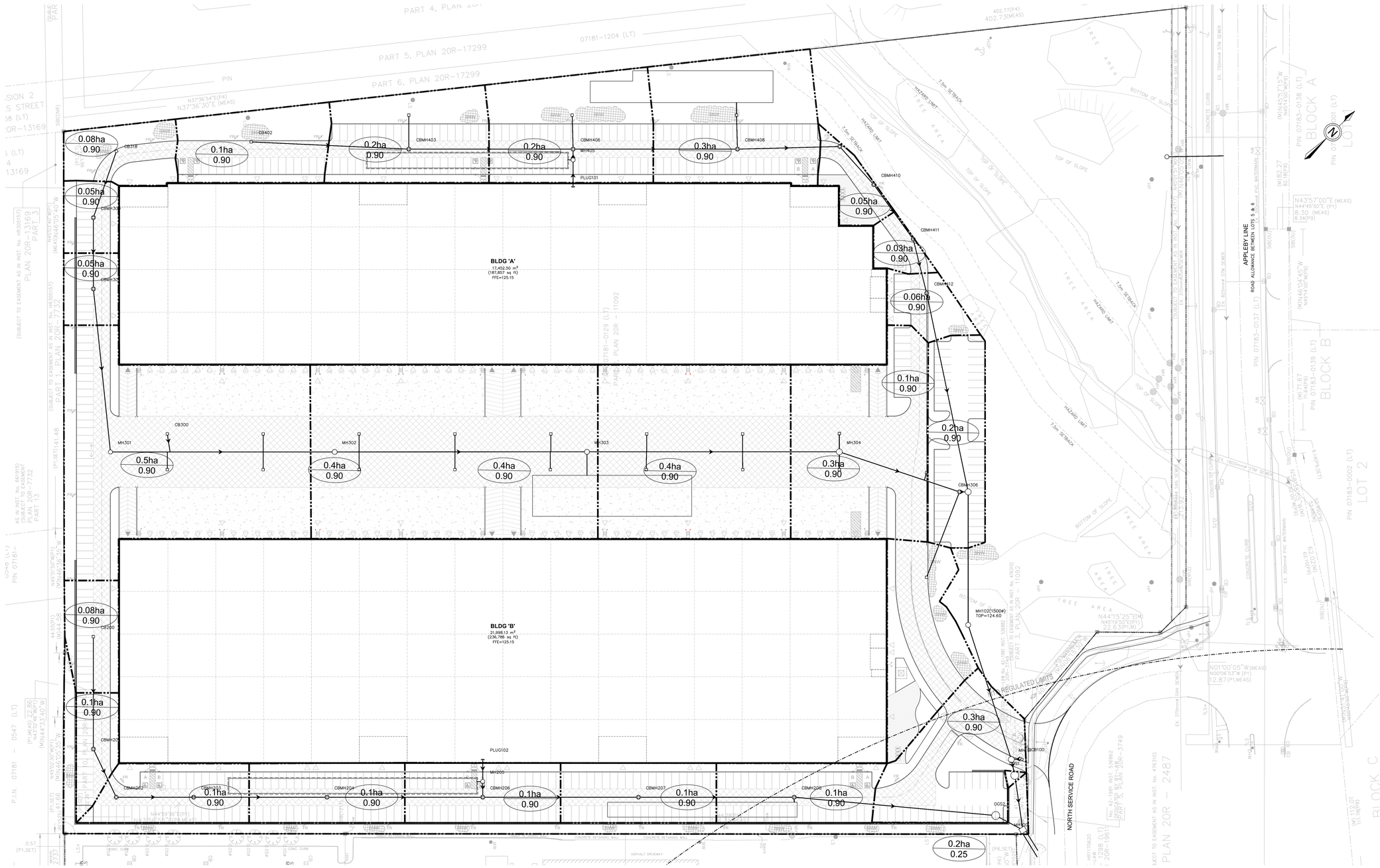
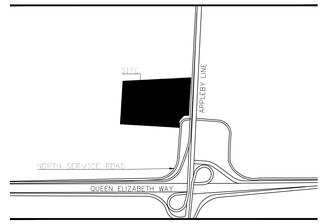


KEY PLAN BURLINGTON, ON N.T.S.



LEGEND

BEARING NOTE:
BEARINGS SHOWN HEREON ARE GRID BEARINGS AND ARE DERIVED FROM OBSERVED REFERENCE POINTS A AND B HAVING A BEARING OF N43°56'55"E BY REAL TIME NETWORK (RTK) OBSERVATION, ZONE 17, CENTRAL MERIDIAN 81° 00' WEST LONGITUDE.

ELEVATION NOTE:
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO CITY OF BURLINGTON BENCH MARK NO.375, HAVING AN ELEVATION = 121.252 METRES.

No.	REVISION	DATE
1.	ISSUED FOR ZBA	2026/06/25

[redacted]

30 Great Gulf Drive, Unit 20 | Concord ON | L4K 0K7
T. 905.660.0722 | **www.baldassarra.ca**

HUSSON ENGINEERING + MANAGEMENT
P 905.709.5825
200 CACHET WOODS COURT, SUITE 204
MARKHAM, ON L6C 0Z8
HUSSON.CA

OWNERS INFORMATION:

4495 NORTH SERVICE ROAD

4495 NORTH SERVICE ROAD
BURLINGTION, ON

STORM DRAINAGE PLAN

STORM SEWER DESIGN SHEET
4495 North Service Road

Design Storm = 5 YR.
A = 892.84
B = 3
c = 0.784
Starting T_c (min.) = 10
Rainfall Intensity = A / (T_c+B)^c
Municipality: Burlington, Ontario
Project No: 221385
Date: 25-Jun-26
Designed by: EJM

STREET	FROM	TO	SITE FLOWS: AREA (ha) "A"	RUN-OFF COEFF "RC"	A x R	ACCUM. A x R	RAINFALL INTENSITY (mm/hr)	ACCUM. FLOW (m³/s)	EXTERNAL/CONTROL FLOW: EXT. AREA (ha)	EXT. FLOW RATE (L/s/ha)	EXT. FLOW (m³/s)	ACC. EXT. FLOW (m³/s)	TOTAL FLOW (m³/s)	TIME OF CONCENTRATION: t/S T_c (min.)	ACC. T_c (min.)	D/S T_c (min.)	PIPE DATA: PIPE LENGTH (m)	PIPE SLOPE (%)	PIPE SIZE (mm)	MANNING "n"	FULL FLOW CAPACITY (m³/s)	FULL FLOW VELOCITY (m/s)	% FULL
	CB200	CBMH201	0.08	0.90	0.072	0.072	101.31	0.020					0.020	10.000	0.552	10.552	40.1	1.0	250	0.013	0.059	1.211	34%
	CBMH201	CBMH202	0.08	0.90	0.072	0.144	98.55	0.039					0.039	10.552	0.328	10.879	19.0	0.5	300	0.013	0.068	0.967	58%
	CBMH202	CBMH203	0.04	0.90	0.036	0.180	97.00	0.048					0.048	10.879	0.476	11.355	27.6	0.5	300	0.013	0.068	0.967	71%
	CBMH203	CBMH204	0.09	0.90	0.072	0.252	94.83	0.066					0.066	11.355	0.707	12.062	47.6	0.5	375	0.013	0.124	1.122	54%
	CBMH204	CBMH206	0.10	0.90	0.090	0.342	91.82	0.087					0.087	12.062	0.826	12.888	55.6	0.5	375	0.013	0.124	1.122	70%
	BLDG B	MH205							2.20	42.0	0.092	0.092	0.092	10.000	0.083	10.083	7.9	1.0	375	0.013	0.175	1.587	53%
	MH205	CBMH206											0.092	10.000	0.083	10.083	5.6	0.5	375	0.013	0.124	1.122	75%
	CBMH206	CBMH207	0.10	0.90	0.090	0.432	88.56	0.106					0.092	12.888	0.659	13.547	55.5	0.5	525	0.013	0.304	1.404	65%
	CBMH207	CBMH208	0.10	0.90	0.090	0.522	86.15	0.125					0.092	13.547	0.659	14.206	55.5	0.5	525	0.013	0.304	1.404	71%
Central Catchment	CB318	CBMH301	0.08	0.90	0.072	0.072	101.31	0.020					0.020	10.000	0.345	10.345	25.1	1.0	250	0.013	0.059	1.211	34%
Central Catchment	CBMH301	CBMH300	0.05	0.90	0.045	0.117	99.57	0.032					0.032	10.345	0.438	10.783	25.4	0.5	300	0.013	0.068	0.967	47%
Central Catchment	CBMH300	MH301	0.05	0.90	0.045	0.162	97.45	0.044					0.044	10.783	1.008	11.792	58.5	0.5	300	0.013	0.068	0.967	64%
Central Catchment	MH301	MH302	0.60	0.90	0.540	0.702	92.94	0.181					0.181	11.792	1.228	13.018	80.0	0.3	525	0.013	0.235	1.088	77%
Central Catchment	MH302	MH303	0.63	0.90	0.567	1.269	88.67	0.310					0.310	13.018	1.166	14.184	90.0	0.3	675	0.013	0.460	1.296	67%
Central Catchment	MH303	MH304	0.43	0.90	0.387	1.656	83.95	0.386					0.386	14.184	1.166	15.351	90.0	0.3	675	0.013	0.460	1.296	84%
Central Catchment	MH304	CBMH306	0.32	0.90	0.288	1.944	80.25	0.433					0.433	15.351	0.546	15.897	43.2	0.3	750	0.013	0.609	1.380	71%
Central Catchment	CB307	CBMH306	0.17	0.90	0.153	0.153	101.31	0.043					0.043	10.000	0.666	10.666	48.4	1.0	250	0.013	0.059	1.211	72%
	CB400	CBMH401	0.05	0.90	0.045	0.045	101.31	0.013					0.013	10.000	0.350	10.350	25.4	1.0	250	0.013	0.059	1.211	21%
	CBMH401	CBMH402	0.05	0.90	0.045	0.090	99.54	0.025					0.025	10.350	0.381	10.731	22.1	0.5	300	0.013	0.068	0.967	36%
	CBMH402	CBMH403	0.09	0.90	0.072	0.162	97.70	0.044					0.044	10.731	0.889	11.620	51.6	0.5	300	0.013	0.068	0.967	64%
	CBMH403	CBMH404	0.10	0.90	0.090	0.252	93.66	0.066					0.066	11.620	0.838	12.456	56.3	0.5	375	0.013	0.124	1.122	53%
	CBMH404	CBMH406	0.20	0.90	0.180	0.432	90.23	0.108					0.108	12.456	0.871	13.327	58.6	0.5	375	0.013	0.124	1.122	87%
	BLDG A	MH405							1.75	42.0	0.074	0.074	0.074	10.000	0.102	10.102	9.7	1.0	375	0.013	0.175	1.587	42%
	MH405	CBMH406											0.074	10.102	0.056	10.158	3.8	0.5	375	0.013	0.124	1.122	59%
	CBMH406	CBMH408	0.20	0.90	0.180	0.612	86.94	0.148					0.074	13.327	0.696	14.023	58.8	0.5	525	0.013	0.304	1.404	73%
	CB407	CBMH408												10.000	0.149	10.149	12.2	1.0	300	0.013	0.097	1.367	0%
	CBMH408	CBMH409	0.30	0.90	0.270	0.882	84.50	0.207					0.074	14.023	0.396	14.419	38.5	0.5	600	0.013	0.434	1.535	65%
	CBMH409	CBMH410	0.05	0.90	0.045	0.927	83.17	0.214					0.074	0.288	14.419	0.198	14.617	18.2	0.5	600	0.013	0.434	1.535	66%
	CBMH410	CBMH411	0.03	0.90	0.027	0.954	82.53	0.219					0.074	0.292	14.617	0.261	14.877	24.0	0.5	600	0.013	0.434	1.535	67%
	CBMH411	CBMH412	0.06	0.90	0.054	1.008	81.71	0.229					0.074	0.302	14.877	0.216	15.093	19.9	0.5	600	0.013	0.434	1.535	70%
North Catchment	CTRL 1	MH103							1.00	52.000	0.052	0.052	0.052	10.000	0.011	10.011	1.0	1.0	375	0.013	0.175	1.587	30%
	MH103	MH102											0.052	0.052	10.011	1.726	11.737	90.0	0.3	375	0.013	0.096	0.869	54%
Central Catchment	CTRL 2	MH102							1.00	46.0	0.046	0.046	0.046	10.000	0.014	10.014	1.0	1.0	250	0.013	0.059	1.211	77%
	DCB100	MH101	0.19	0.90	0.171	0.171	101.31	0.048					0.048	10.000	0.252	10.252	18.3	1.0	250	0.013	0.059	1.211	81%
	MH102	MH101											0.098	11.737	0.873	12.610	57.0	0.3	525	0.013	0.235	1.088	42%
	MH101	OGS1				0.171	89.63	0.043					0.098	0.141	12.610	0.089	12.699	5.8	0.3	525	0.013	0.235	1.088	60%
	OGS1	MH100				0.171	89.29	0.042					0.098	0.140	12.699	0.302	13.001	19.7	0.3	525	0.013	0.235	1.088	60%
South Cathmonet	CTRL 3	OGS2							1.00	217.0	0.217	0.217	0.217	10.000	0.857	10.857	72.2	0.5	525	0.013	0.304	1.404	71%
	OGS2	MH100											0.217	0.217	10.857	0.130	10.987	11.0	0.5	525	0.013	0.304	1.404	71%
North Service Road - Two 525mm dia. Pipe	MH100	HW100				0.171	88.14	0.042				0.217	0.315	0.357	13.001	0.139	13.140	9.1	0.3	525	0.013	0.235	1.088	152%

LICENSED PROFESSIONAL ENGINEER
E.J. MOGRISKIN
100151243
June 25, 2026
PROVINCE OF ONTARIO

DATE:	DRAWN BY:	CHECKED:	SCALE:
JUNE 25, 2026	HP	EM	1:500

PROJECT No. 221385

DRAWING No. **SW-4**